

FIG. 1

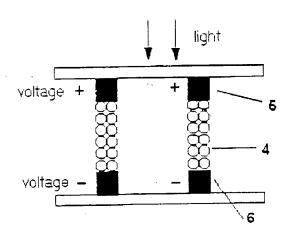
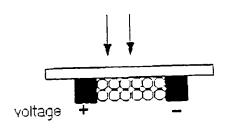


FIG. 2

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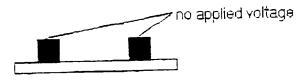


FIG.3

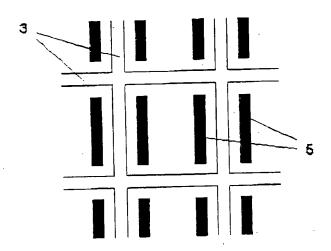
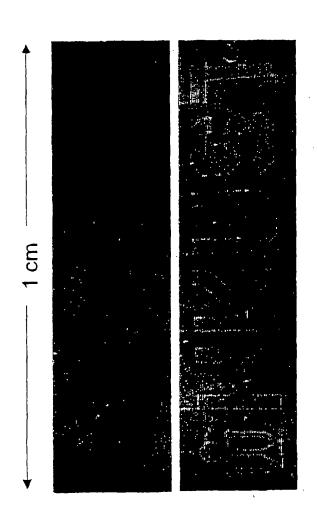


FIG. 4

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BaTiO $_3$  particles (50nm diameter) suspended in silicone oil Lower panel: Electric field on. Field strength= 40 V/mm. Pictures taken for a real prototype: Upper panel: Electric field off

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1mm

Another picture showing that the ER particles aggregate forming a particular pattern Electric field ~ 30 to 50 V/mm

FIG. 5(S)